DNV·GL

Certificate No:
TAE00001DM

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Motor

with type designation(s)
4KTC 71 up to 4KTC 315

Issued to
Bartec Varnost d.o.o.
Zagorje ob Savi, Slovenia

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Degree of protection	**IP 55, IP 56, IP 65, IP 66, IP 67, IP 68**
Thermal class	**155 (F)**
Temperature rise	**155 (F), temperature rise 130 (B)**
Voltage (V)	**110 V up to 690 V**
Power (kW)	**0,09 kW up to 200 kW (S1)**
Frequency (Hz)	**50 Hz, 60 Hz**
Speed (RPM)	**750 1/min up to 3600 1/min**

This Certificate is valid until **2021-08-26**.

Issued at **Hamburg** on **2016-09-15**

for **DNV GL**

DNV GL local station: **Koper**

Approval Engineer: **Heinz-Dieter Hespe**

Duy Nam Le
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Cast iron motor, Ex-protected
Type **4KTC 71 up to 4KTC 315**

Rated voltage	110 V up to 690 V
Rated power	0,09 kW up to 200 kW (S1)
Synchronous speed	750 1/min up to 3600 1/min
Rated frequency	50 Hz, 60 Hz
Ambient temperature	45 °C
Duty type	S1 – S9
Thermal class	155 (F), temperature rise 130 (B)
Degree of protection	IP 55, IP 56, IP 65. IP66, IP67, IP68
No. of poles	2, 4, 6, 8, 10, 12, multiple poles

Application/Limitation

For installallation in hazardous areas according to the certificates issued by DEKRA EXAM GmbH

Type Approval documentation

Drawings, description and technical data sheets
017675/1996-09-05; 020745/2006-02-10; 01882/2000-10-23
Catalogue: UK-D-BME150600-01/12-Bartec

Type of motor	**DEKRA EXAM Certificate No.**	
4KTC 71 - 132	BVS 13 ATEX E 125	II 2G Ex db IIC T* Gb and Ex db e IIC T*Gb
4KTC 180	BVS 13 ATEX E 125	II 2G Ex db IIC T* Gb and Ex db e IIC T*Gb
4KTC 200	BVS 13 ATEX E 125	II 2G Ex db IIC T* Gb and Ex db e IIC T*Gb
4KTC 225	BVS 13 ATEX E 125	II 2G Ex db IIC T* Gb and Ex db e IIC T*Gb
4KTC 250 M./.	BVS 15 ATEX E 075x	II 2G Ex d IIC T* Gb and Ex de IIC T*Gb
4KTC 280	BVS 15 ATEX E 075x	II 2G Ex d IIC T* Gb and Ex de IIC T*Gb
4KTC 315	BVS 15 ATEX E 075x	II 2G Ex d IIC T* Gb and Ex de IIC T*Gb

Tests carried out

According to the test reports VS 08 02 038 of
4KTC 90L-4, Ser. No. 9743, dated 26.06.2006
4KTC 112M-4, Ser. No. 4228, dated 26.06.2006
4KTC 225M-2, Ser. No. 106 dated 26.06.2006

Marking of product

According to IEC 60034-1 clause 10.2.
According to the EC-Type Examination Certificate clause (12), issued by DEKRA EXAM GmbH

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable).
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out).
- Review of type approval documentation.
- Review of possible change in design, materials and performance.
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE